

FIG.1

PKI SYSTEM

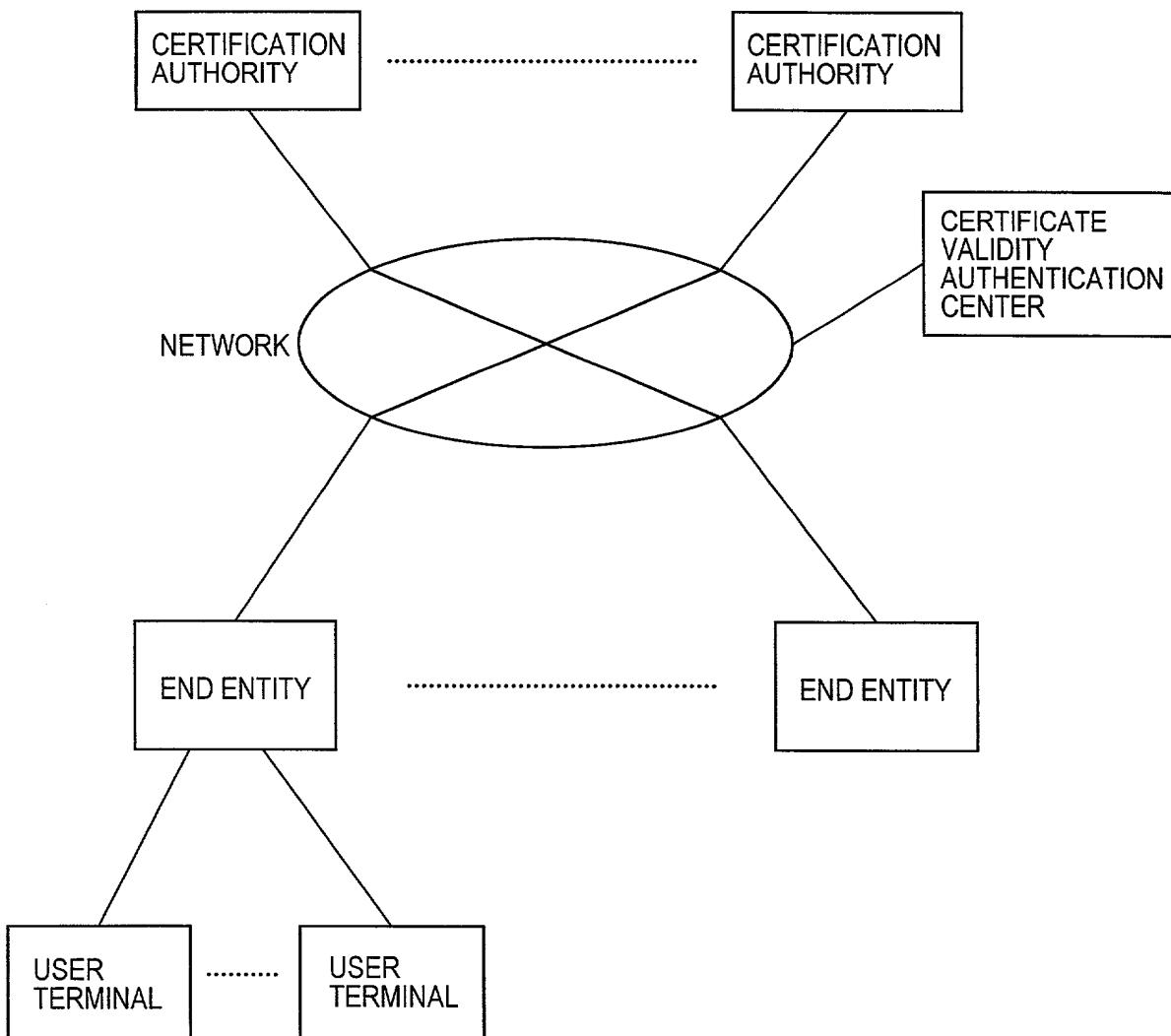
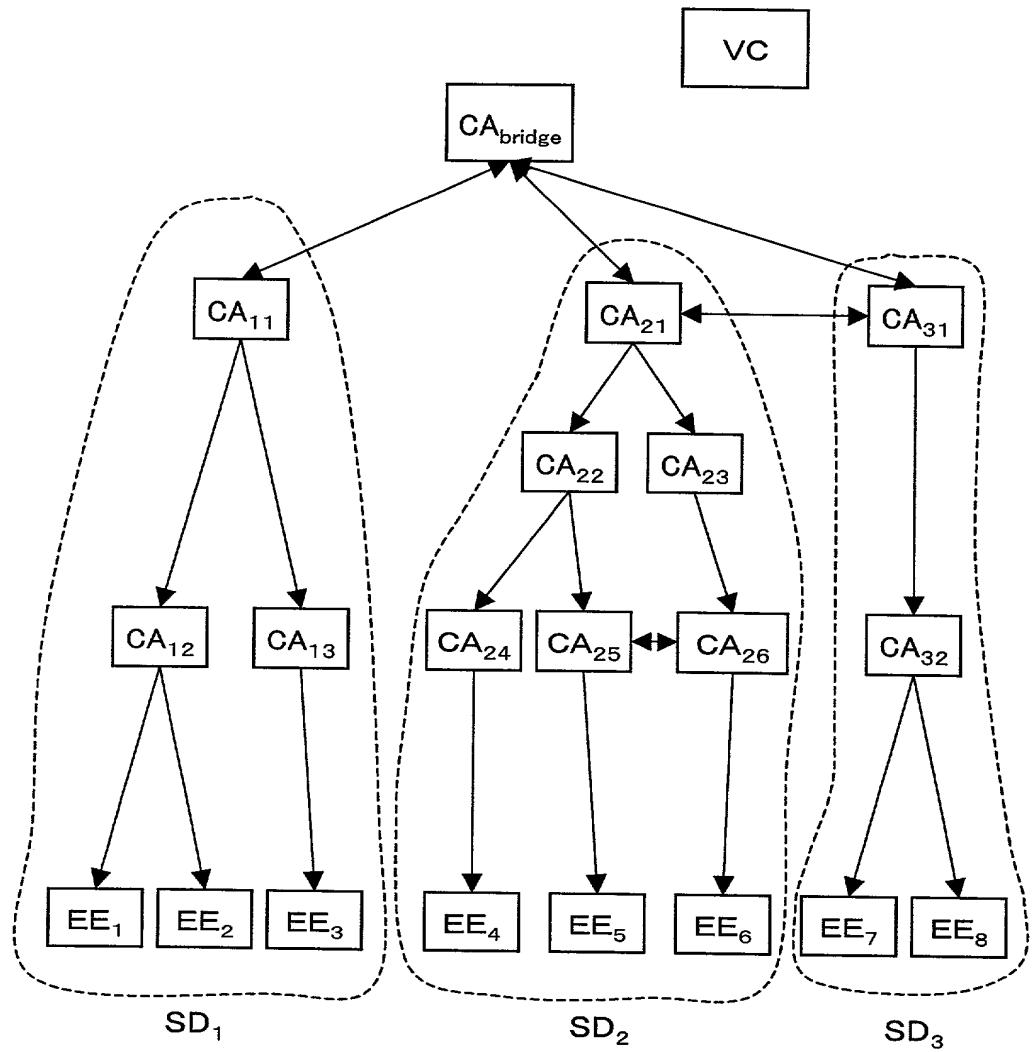


FIG.2

CERTIFICATE BRIDGE



→ : FLOW OF PUBLIC KEY CERTIFICATE

CA : CERTIFICATION AUTHORITY

EE : END ENTITY

VC : CERTIFICATE VALIDITY AUTHENTICATION CENTER

SD : SECURITY DOMAIN

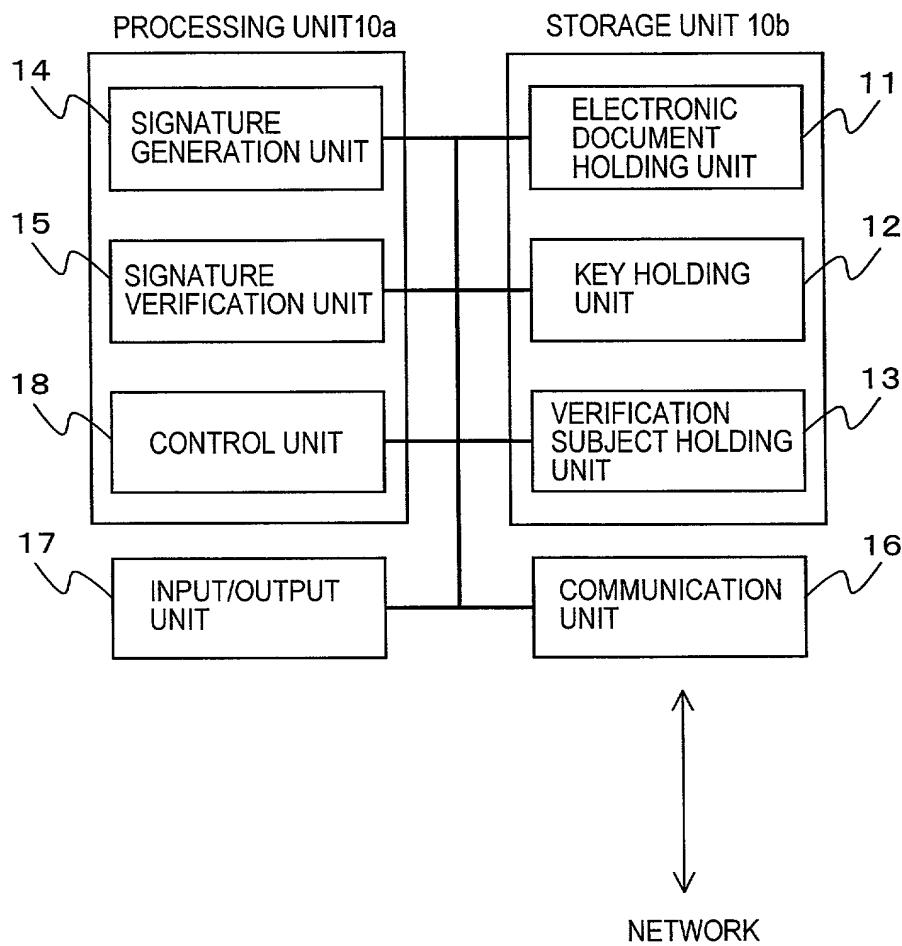
FIG.3**END ENTITY**

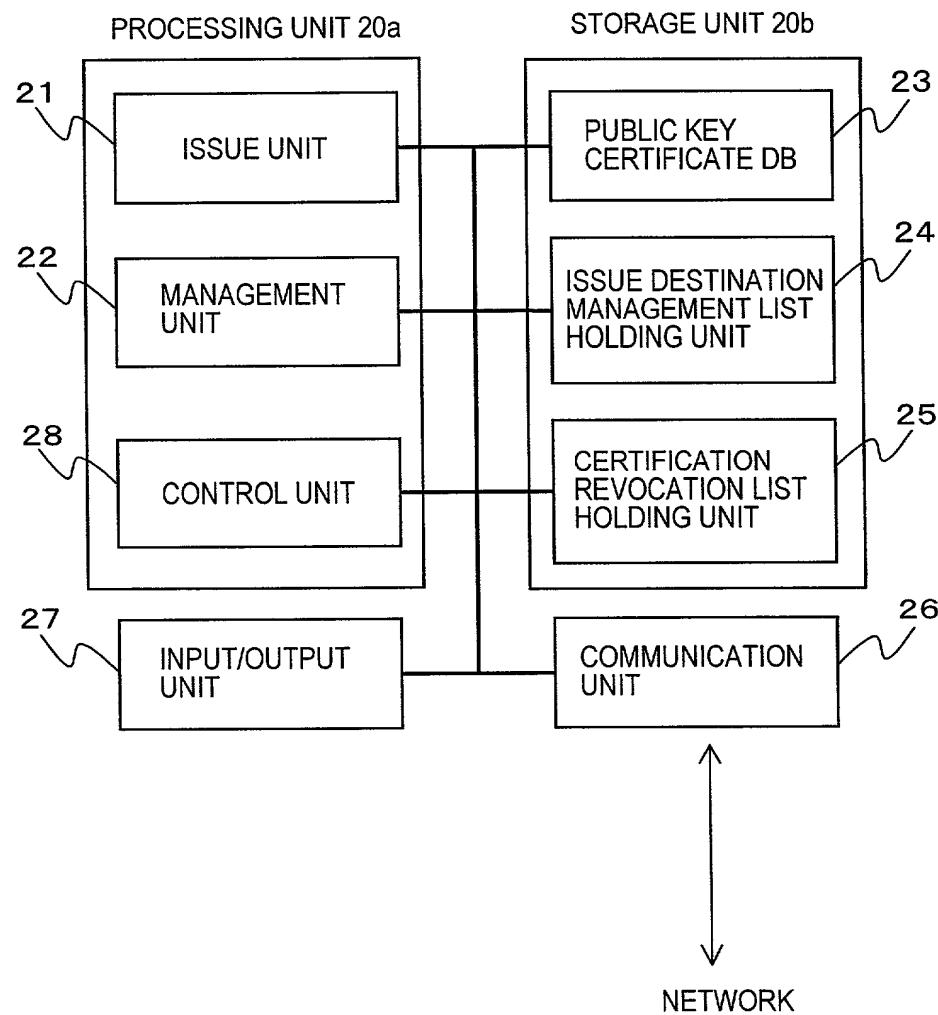
FIG.4**CERTIFICATION AUTHORITY**

FIG.5

CERTIFICATE VALIDITY AUTHENTICATION CENTER

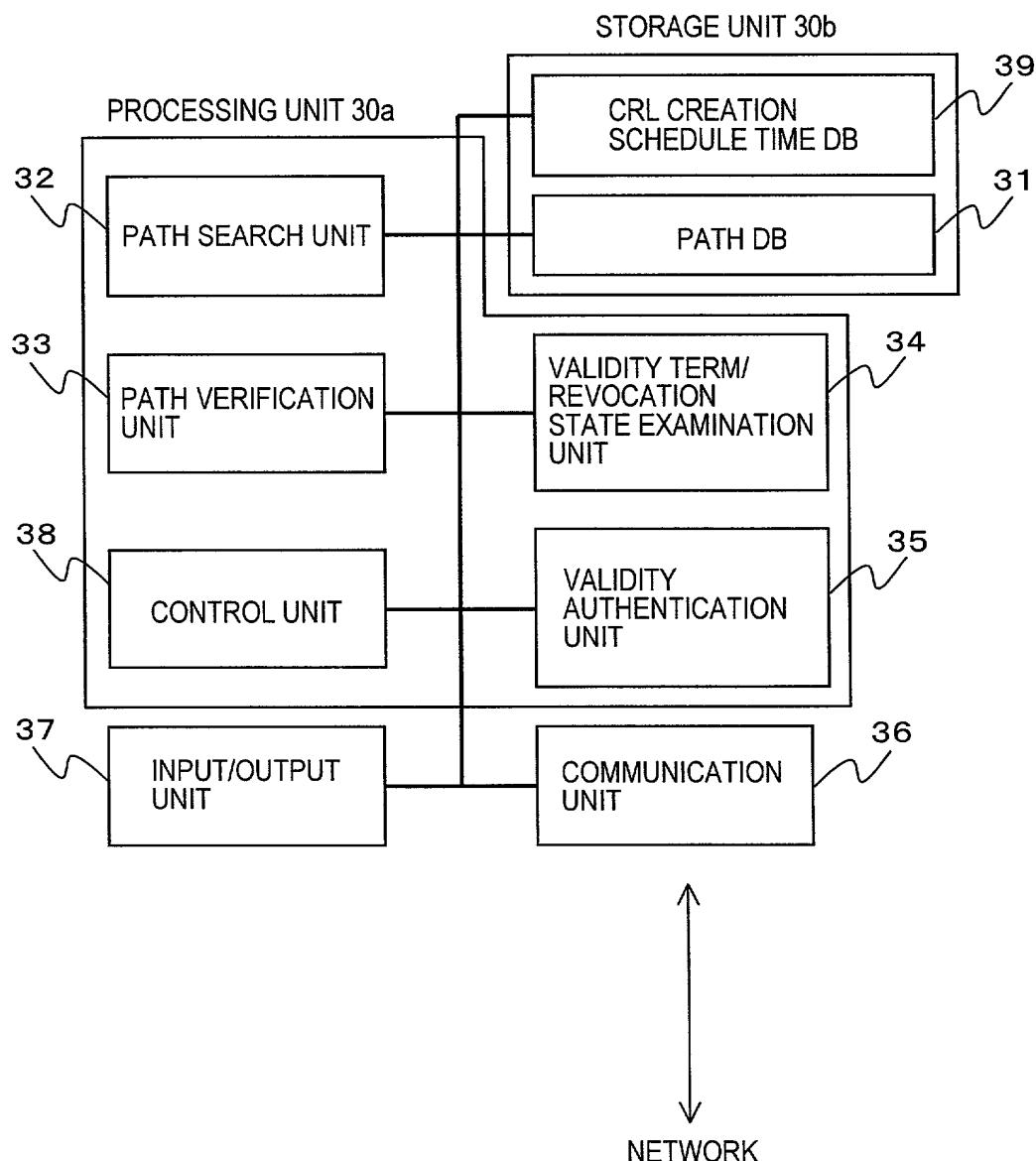


FIG.6

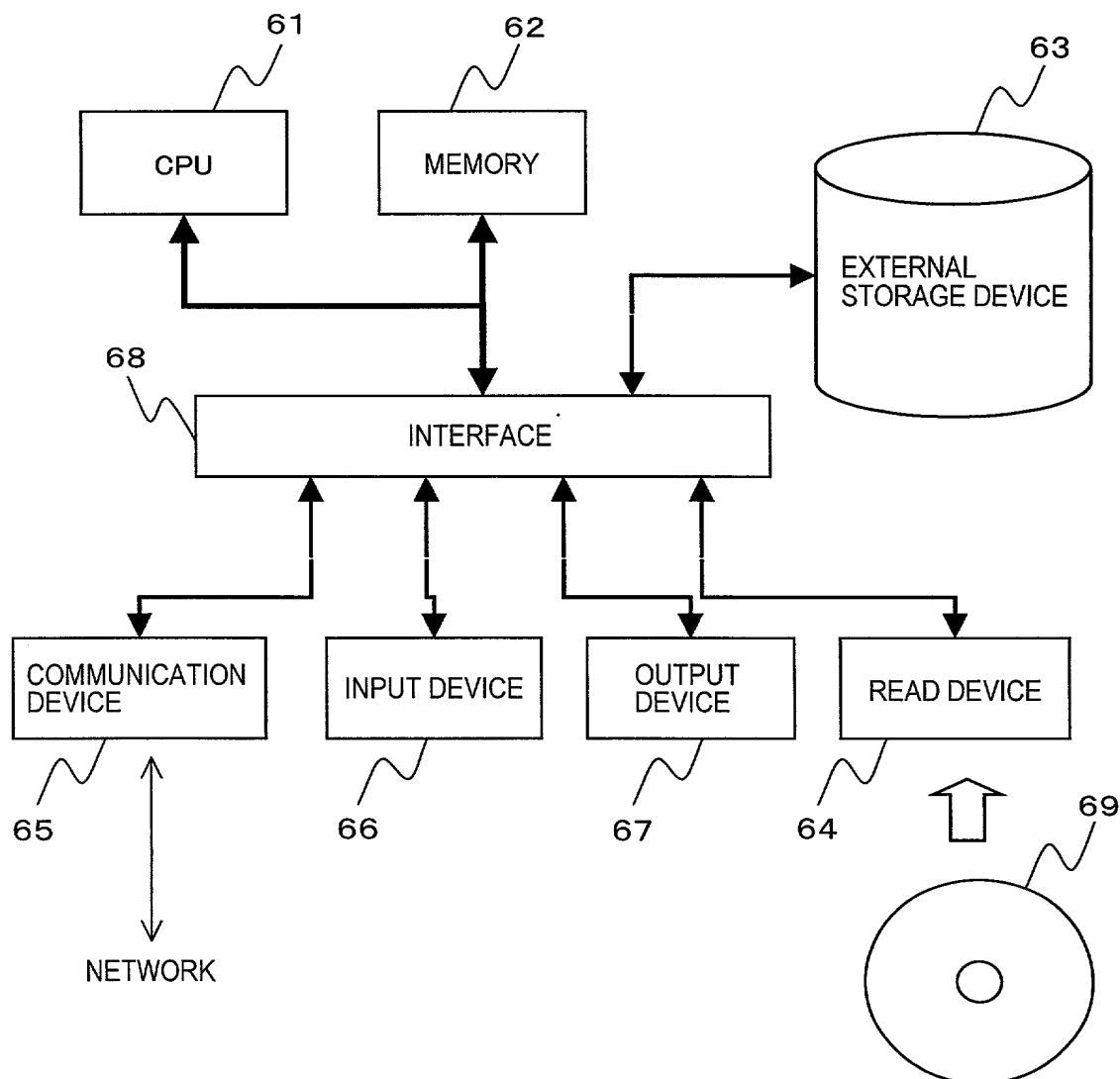


FIG.7

OPERATION OF SEARCHING FOR, VERIFYING AND MANAGING PATHS

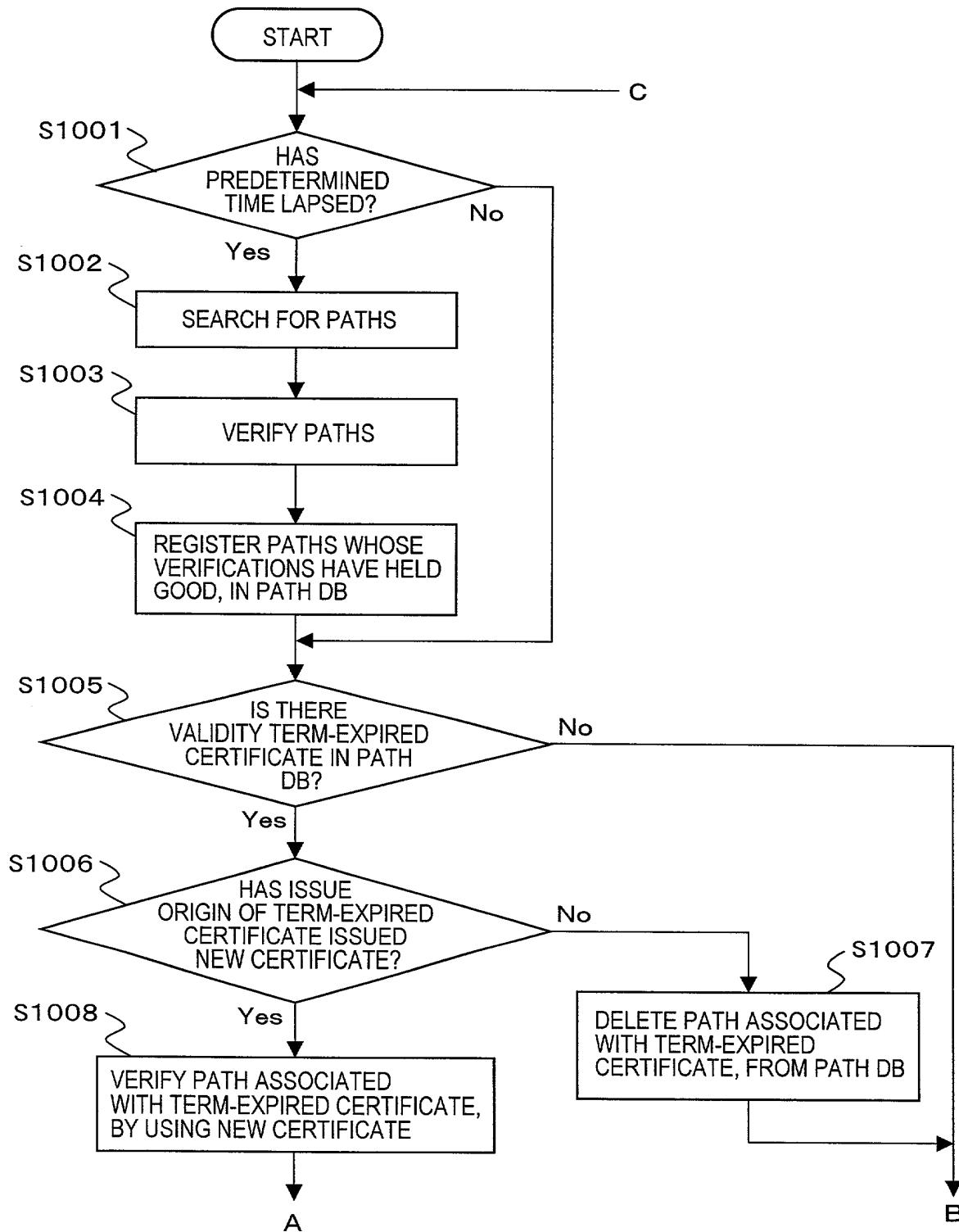


FIG.8

OPERATION OF SEARCHING FOR, VERIFYING AND MANAGING PATHS

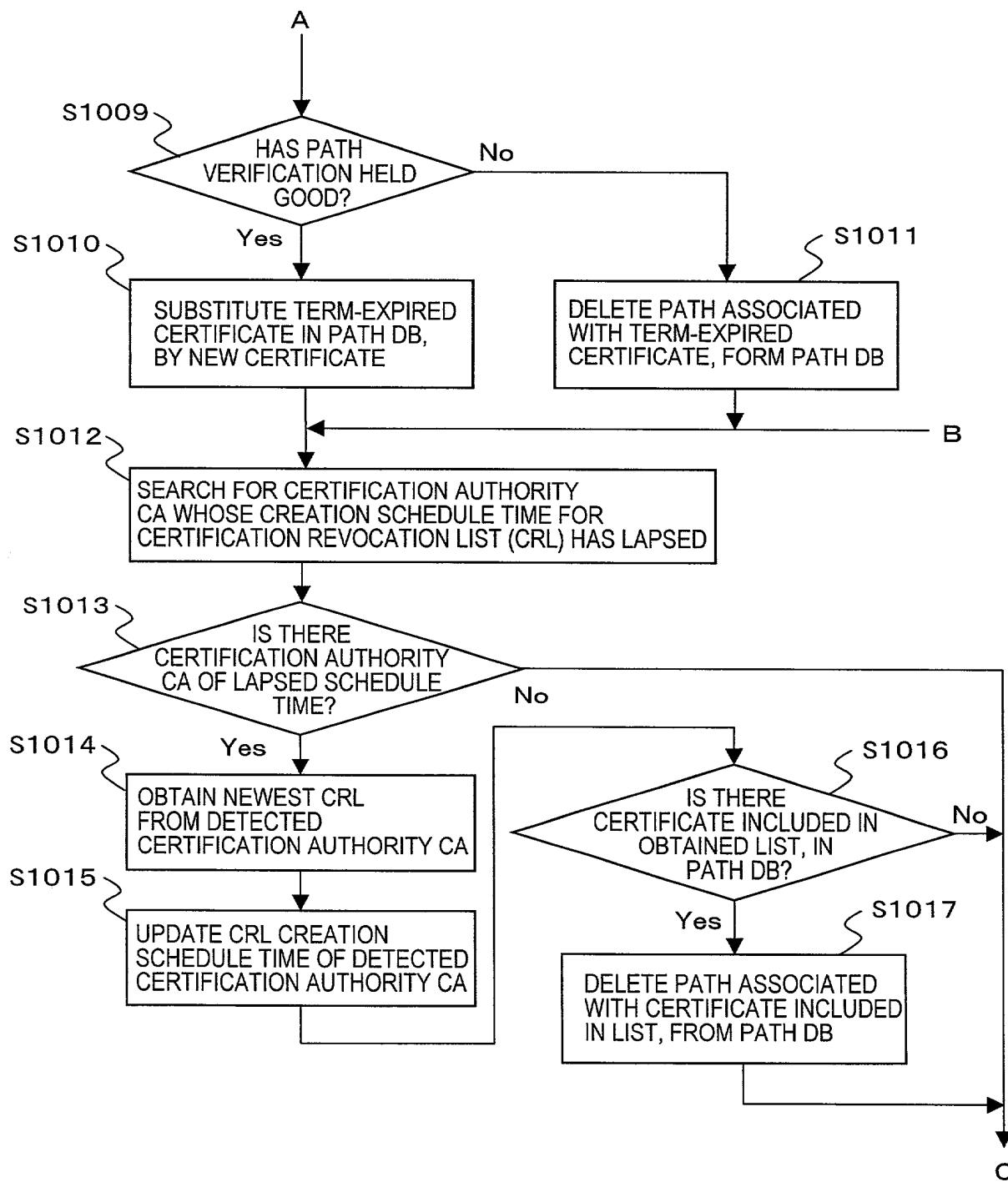


FIG.9

PATH SEARCH RESULT (IN CASE OF FIG. 2)

TERMINAL ADMITTING CERTIFICATION AUTHORITY	PATH
CA ₁₂	CA _{bride} -CA ₁₁ -CA ₁₂
CA ₁₃	CA _{bride} -CA ₁₁ -CA ₁₃
CA ₂₄	CA _{bride} -CA ₂₁ -CA ₂₂ -CA ₂₄
	CA _{bride} -CA ₃₁ -CA ₂₁ -CA ₂₂ -CA ₂₄
CA ₂₅	CA _{bride} -CA ₂₁ -CA ₂₂ -CA ₂₅
	CA _{bride} -CA ₂₁ -CA ₂₃ -CA ₂₆ -CA ₂₅
	CA _{bride} -CA ₃₁ -CA ₂₁ -CA ₂₂ -CA ₂₅
	CA _{bride} -CA ₃₁ -CA ₂₁ -CA ₂₃ -CA ₂₆ -CA ₂₅
CA ₂₆	CA _{bride} -CA ₂₁ -CA ₂₃ -CA ₂₆
	CA _{bride} -CA ₂₁ -CA ₂₂ -CA ₂₅ -CA ₂₆
	CA _{bride} -CA ₃₁ -CA ₂₁ -CA ₂₃ -CA ₂₆
	CA _{bride} -CA ₃₁ -CA ₂₁ -CA ₂₂ -CA ₂₅ -CA ₂₆
CA ₃₂	CA _{bride} -CA ₃₁ -CA ₃₂
	CA _{bride} -CA ₂₁ -CA ₃₁ -CA ₃₂

FIG.10

OPERATION OF AUTHENTICATING VALIDITY OF PUBLIC KEY CERTIFICATE

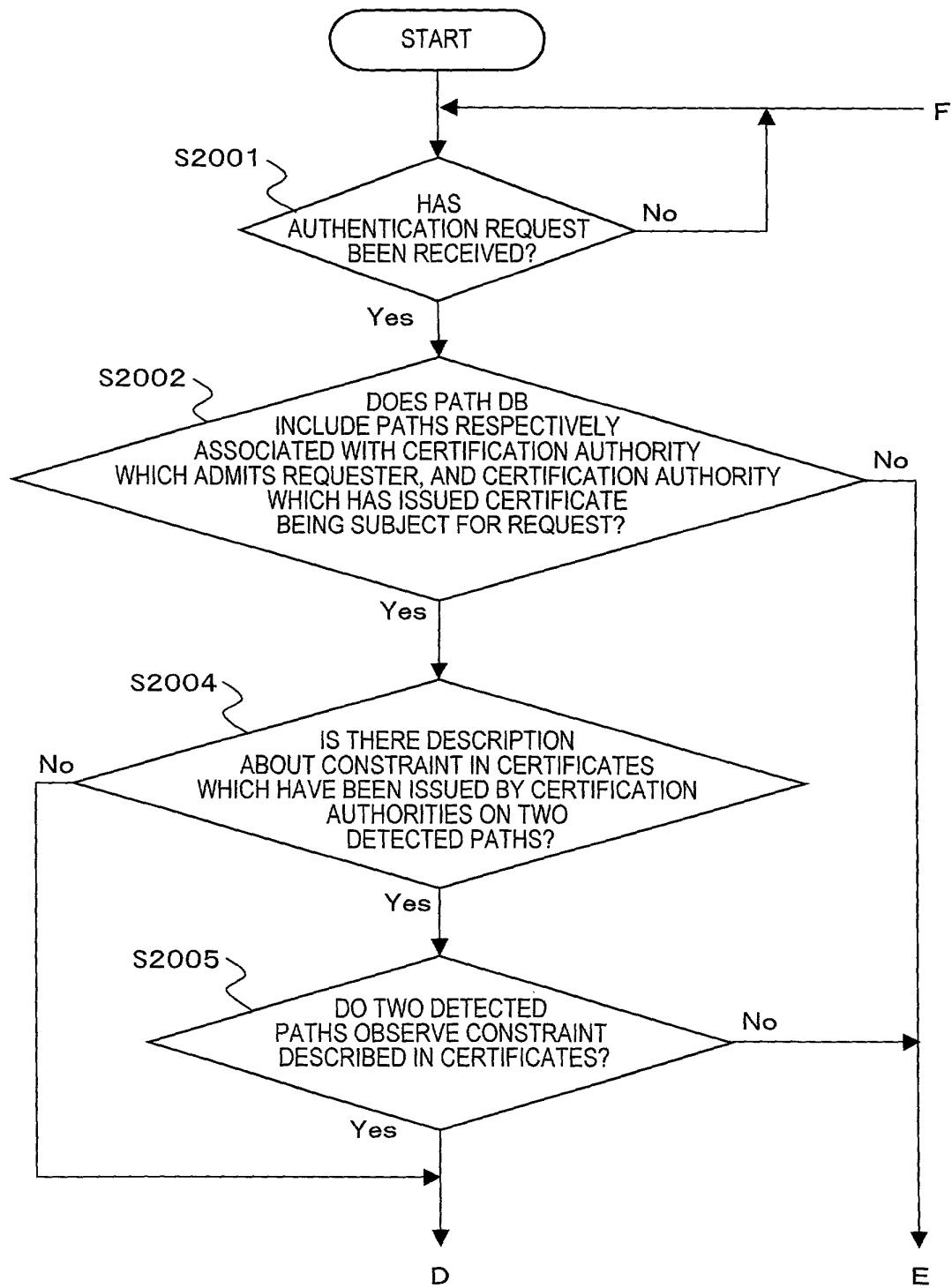
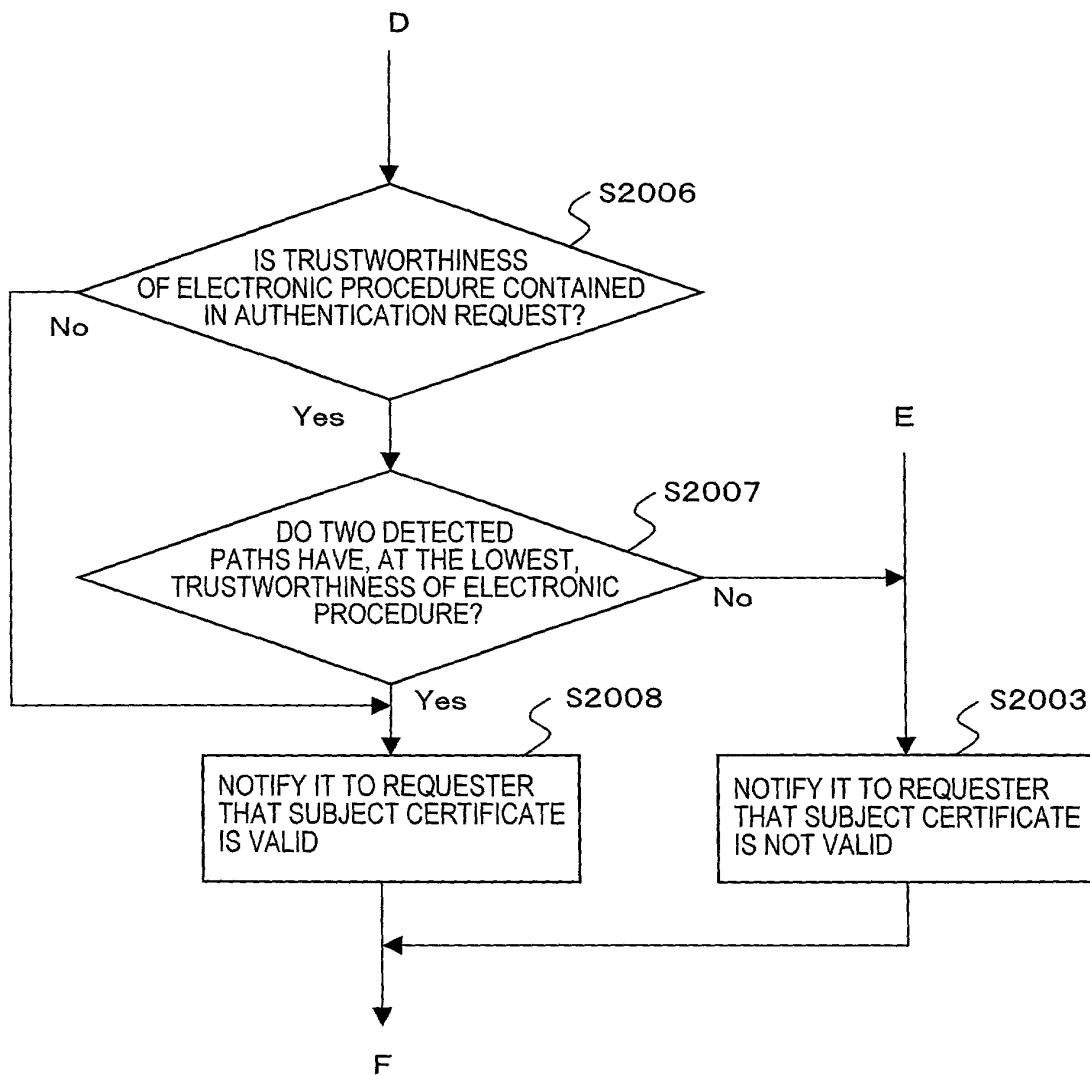


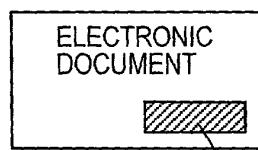
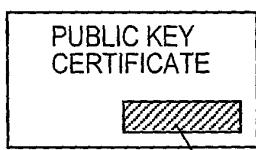
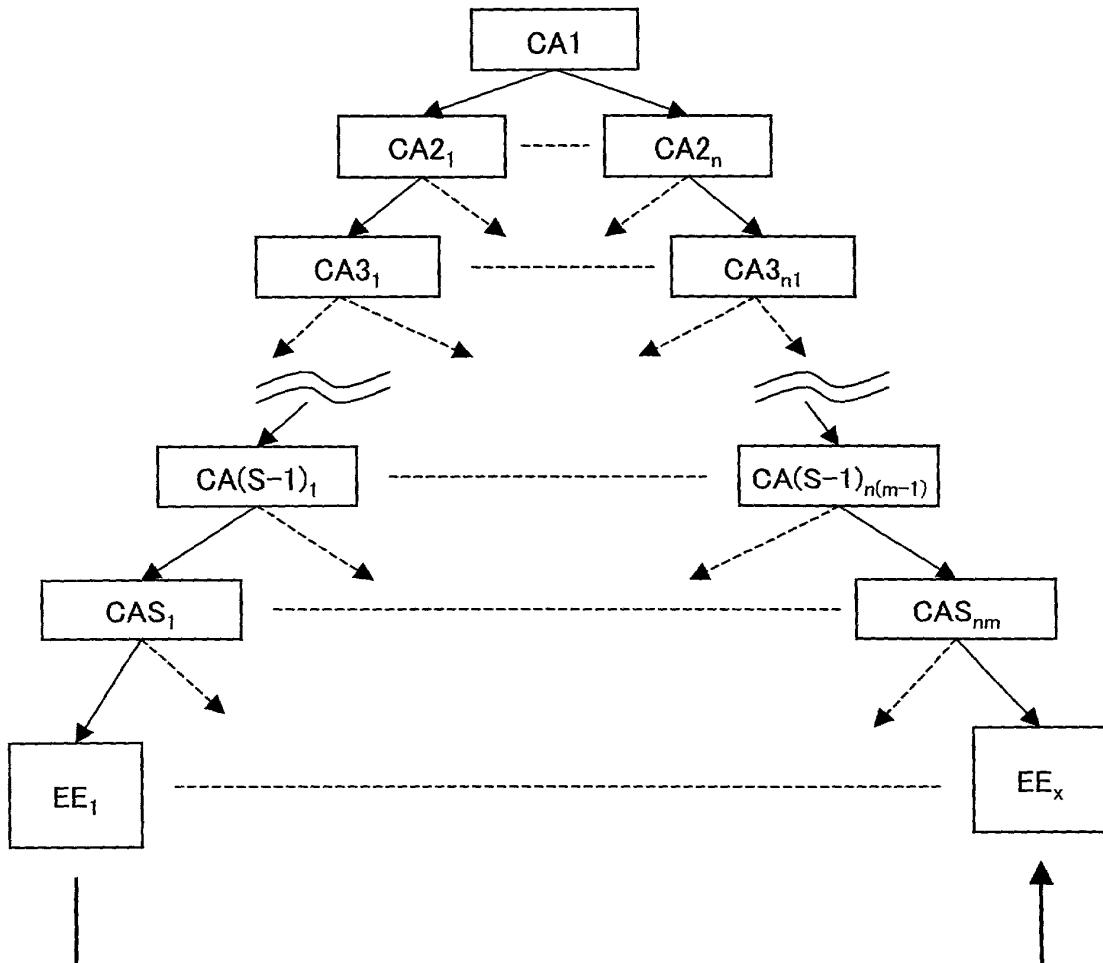
FIG.11

OPERATION OF AUTHENTICATING VALIDITY OF PUBLIC KEY CERTIFICATE



20030321130001

FIG.12



SIGNATURE
OF CAS₁

SIGNATURE
OF EE₁

CA : CERTIFICATION AUTHORITY

EE : END ENTITY

→ : FLOW OF PUBLIC KEY CERTIFICATE